

LENS ASSEMBLY WITH INTEGRATED FOCUS MOUNT AND CRT COUPLER

Abstract of the Invention

A lens assembly adapted to be connected to a CRT and affixed to mounting structure in a projection television cabinet. The lens assembly includes a tubular lens mount having a longitudinal axis and at least a first optical lens element mounted along the longitudinal axis. A tubular focus mount extends along the longitudinal axis and fastening and locking structure connects the lens mount to the focus mount after a focus mount position is obtained. A CRT coupler is formed integrally with the focus mount and includes structure for securing a CRT and for securing the coupler to the mounting structure within the television cabinet. A second optical lens element is mounted to the CRT coupler. A flexible bladder may be used to contain coolant fluid between the CRT and the coupler. A flange may be provided to set a Scheimpflug angle between the CRT and the coupler. A clamp plate for the second optical lens element may include a generally rectangular opening providing a 4:3 or 16:9 mask for the image transmitted by the CRT.